PATRIOT RENEWABLES
Canton Mountain Wind, LLC

May 21, 2012

Mr. Erle Townsend
Project Manager
Maine Department of Environmental Protection
17 State House Station
Augusta, ME 04333-0017

Subject: Canton Mountain Wind Project, Application L-25557-24-A-N/L-25558-TB-B-N Alternate Siemens 3.0-113 Wind Turbine Submission

Dear Erle:

Canton Mountain Wind, LLC (CMW) would like to amend the above-referenced application to include an alternate turbine manufacturer and model, the Siemens 3.0-113. The Canton Mountain Wind Project (Project) was submitted under the above-referenced application numbers with two potential turbine layouts: 1) eight General Electric (GE) turbines on 85-meter towers (seven GE 2.75-103 with 103-meter rotors and one GE 2.75-100 with a 100-meter rotor); and 2) eight Gamesa G90 on 78-meter towers with 90-meter rotors. A new turbine model – the Siemens SWT-3.0-113 3.0 MW turbine with a 113-meter rotor on a 90-meter tower recently became available for this Project. The Siemens turbines would be located in the same layout as the GE and Gamesa turbines. Although the Siemens SWT-3.0-113 wind turbine has blades approximately 16 feet longer and is 30 feet taller overall than the GE wind turbines, the Siemens turbine generates lower sound pressure levels at protected locations than both the GE and Gamesa turbines due to a difference in the frequency of sound generated by the turbines.

The same DEP-approved sound modeling used in CMW's application to predict sound emissions from the GE and Gamesa turbines demonstrates compliance with DEP sound rules at all protected locations with all Siemens turbines operating at full sound power.

Enclosed are the following documents relating to the use of the proposed alternate turbine model:

1. Section 5 - Noise: Memorandum from RSG regarding sound modeling results for the Siemens SWT-3.0-113 turbines.
2. Section 7 – Wildlife: A memo from Tetra Tech, Inc. reassessing avian radar data based on the potential increase in rotor diameter and height associated with the SWT-3.0-113.
3. Section 26 – Revised Shadow Flicker Analysis
4. Section 27 – Public Safety – Design certification and braking system description. Please note that the enclosed design certification is for the Siemens SWT-3.0-101 turbine. The Siemens SWT-3.0-113 uses the same nacelle as the SWT-3.0-101, but with longer blades. Accordingly, the design certification is applicable to both turbine models.
5. Section 30 – Revised photosimulations and addendum to the original Visual Impact Assessment (VIA) from visual consultant Terrence J. DeWan & Associates addressing the effects of the slightly larger Siemens turbine on conclusions in the original VIA in Section 30 (Generating Facility – Visual Quality and Scenic Character).

Two (2) hard copies and one compact disk (CD) of this submission are also being sent via Fed-Ex. Please let me know if you have any questions.

Sincerely,

Andy Novey
Project Manager

cc. Town of Canton
Town of Dixfield
Mr. Rod Howe U.S. Army Corps of Engineers, Maine Field Office
Kathleen Miller, Tetra Tech, Inc.